

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/31/2002

JACOBSON, PRICE, HOLMAN & STERN, LLC THE JENIFER BUILDING 400 SEVENTH STREET, N.W. WASHINGTON, DC 20004 EXAMINER

GHAYOUR, MOHAMMAD H

ART UNIT CLASS-SUBCLASS

2634 375-141000

DATE MAILED: 05/31/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767.953	03/27/2001	Seung Chan Bang	P63083US1	2843

TITLE OF INVENTION: ORTHOGONAL COMPLEX SPREADING METHOD FOR MULTICHANNEL AND APPARATUS THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	09/03/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Gy.



## PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

indicated unless corrected b maintenance fee notification	elow or directed otherwi	se in Block 1, by (a) sp	ecifying a new co	orrespondence addre	ess; and/or (b) indicating a sepa	urate "FEE ADDRESS" fo	
CURRENT CORRESPONDENCE 75	E ADDRESS (Note: Legibly mark 90 05/31/2002		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
JACOBSON, PRI THE JENIFER BU 400 SEVENTH ST WASHINGTON, D	STERN, LLC		formal drawing, must have its own certificate of mailing or transmission  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited wit United States Postal Service with sufficient postage for first class mail envelope addressed to the Box Issue Fee address above, or being fact transmitted to the USPTO, on the date indicated below.				
					<del> </del>	(Depositor's name	
						(Signature	
						(Date	
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/767,953	03/27/2001		Seung Chan Bang	,	P63083US1	2843	
TITLE OF INVENTION: OI	RTHOGONAL COMPLE	X SPREADING METHO	OD FOR MULTIC	CHANNEL AND A	PPARATUS THEREOF		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBL	CATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$640		\$300	\$940	09/03/2002	
EXAMIN	ER	ART UNIT	CLASS-SUBCI	.ASS			
GHAYOUR, MOI	HAMMAD H	2634	375-14100	0			
1. Change of correspondence CFR 1.363).  U Change of corresponder Address form PTO/SB/12  U "Fee Address" indication PTO/SB/47) attached. Use Address ASSIGNEE NAME AND	Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unless ar been previously submitted t (A) NAME OF ASSIGNEE	o the USPTO or is being :	submitted under separate (B) RE	cover. Completion	n of this form is NC 7 and STATE OR C	assignee data is only appropriat of a substitute for filing an assig OUNTRY)  corporation or other private gr	enment.	
1a. The following fee(s) are e	enclosed:		ment of Fee(s):				
☐ Issue Fee				of the fee(s) is encl			
	☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to						
☐ Advance Order - # of Co	ppies	Deposi	t Account Numbe	r	(enclose an extra copy of this i	form).	
Commissioner for Patents is	requested to apply the Issu	ne Fee and Publication Fe	ee (if any) or to re	apply any previous	sly paid issue fee to the applicati	on identified above.	
Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	registered attorney or a	gent; or the assignee or	r other party in				
This collection of informat obtain or retain a benefit by application. Confidentiality estimated to take 12 minute completed application form case. Any comments on the suggestions for reducing the Patent and Trademark Offic NOT SEND FEES OR Commissioner for Patents, 1	by the public which is to is governed by 35 U.S.C. is to complete, including to the USPTO. Time whe amount of time you is burden, should be sene, U.S. Department of C. COMPLETED FORMS	file (and by the USPTC 122 and 37 CFR 1.14. T gathering, preparing, and ill vary depending upon require to complete that to the Chief Informatic	to process) an his collection is d submitting the n the individual his form and/or on Officer, U.S.				

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#### United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/767,953	03/27/2001	Seung Chan Bang	P63083US1	1 2843	
75	90 05/31/2002		EXAMIN	ER	
JACOBSON, PRICE, HOLMAN & STERN, LLC THE JENIFER BUILDING 400 SEVENTH STREET, N.W.			GHAYOUR, MOHAMMAD H		
			ART UNIT	PAPER NUMBER	
WASHINGTON, I	,		2634	10	
			DATE MAILED: 05/31/2002	·	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

			(4		
<del></del>	Application No.	Applicant(s)			
	09/767,953	BANG ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Mohammad H Ghayour	2634			
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	TS IS (OR REMAINS) CLOSED in L-85) or other appropriate commu NT RIGHTS. This application is s	this application. If not included unication will be mailed in due course. <b>Ti</b>			
1. This communication is responsive to <u>5/20/2002</u> .					
2. X The allowed claim(s) is/are 41-97 (renumbered as 1-	57, respectively).				
3. $\boxtimes$ The drawings filed on $3/27/2001$ are accepted by the					
<ol> <li>Acknowledgment is made of a claim for foreign priori</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	ty under 35 U.S.C. § 119(a)-(d) o	· (f).			
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.				
2. Certified copies of the priority documents	s have been received in Application	n No			
3. Copies of the certified copies of the prior	ity documents have been receive	d in this national stage application from t	he		
International Bureau (PCT Rule 17.2(	a)).				
* Certified copies not received:					
<ol> <li>Acknowledgment is made of a claim for domestic price</li> </ol>	-				
(a) The translation of the foreign language provision					
<ol><li>Acknowledgment is made of a claim for domestic price</li></ol>	ority under 35 U.S.C. §§ 120 and/o	or 121.			
Applicant has THREE MONTHS FROM THE "MAILING DA' below. Failure to timely comply will result in ABANDONME!					
7. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which give	submitted. Note the attached EX s reason(s) why the oath or decla	AMINER'S AMENDMENT or NOTICE O ration is deficient.	F		
8. CORRECTED DRAWINGS must be submitted.					
(a) ☐ including changes required by the Notice of Dra	ftsperson's Patent Drawing Revie	w ( PTO-948) attached			
1) hereto or 2) to Paper No		,			
(b) ☐ including changes required by the proposed dra	wing correction filed, which	ch has been approved by the Examiner.			
(c) including changes required by the attached Exa	miner's Amendment / Comment o	r in the Office action of Paper No	_•		
Identifying indicia such as the application number (see 37 of each sheet. The drawings should be filed as a separate			k)		
9.  DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREMENT F					
Attachment(s)					
1 Notice of References Cited (PTO-892)	2□ Notice o	f Informal Patent Application (PTO-152)			
3 Notice of Draftperson's Patent Drawing Review (PTO-9	48) 4⊠ Interviev	v Summary (PTO-413), Paper No. <u>10</u> .			
5☐ Information Disclosure Statements (PTO-1449), Paper		er's Amendment/Comment			
7 Examiner's Comment Regarding Requirement for Depo of Biological Material		er's Statement of Reasons for Allowance	!		
of Biological Material 9 Other .					

Application/Control Number: 09/767,953

Art Unit: 2634

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Yoon S. Ham on 5/29/2002.

The application has been amended as follows: in claims 63 and 64, line 1, replace "57" with -60--.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad H Ghayour whose telephone number is (703) 306-3034. The examiner can normally be reached on M-TH, 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

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Application/Control Number: 09/767,953

Art Unit: 2634

Mohammad Ghayour May 30, 2002

> MOHAMMAD H GHAYOUR PRIMARY EXAMINER